Randolph Blake

Last updated February 1, 2024

CONTACT INFORMATION

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EDUCATION

University of Texas, Arlington: B.A. highest honors, 1967
University of Minnesota, Human Learning Center: National Science Foundation Summer Fellow, 1968
Vanderbilt University: M.A., 1969, Ph.D. 1972, National Institutes of Mental Health Predoctoral Fellow.
Baylor College of Medicine, Department of Ophthalmology and University of Texas Sensory Sciences Center: National Institutes of Mental Health Postdoctoral Fellow, 1972-1974

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science (Fellow)
American Academy of Arts and Sciences (Fellow)
Association for Psychological Science (Fellow)
Association for Research in Vision and Ophthalmology (Fellow)
Japan Society for Promotion of Science Alumni Association
Foreign Scholar, World Class University Initiative, National Research Foundation, Korea, 2010-2013
National Academy of Sciences
Psychonomic Society (Fellow)
Sigma Xi
Society of Experimental Psychologists (Fellow)
Visual Sciences Society (Founding Member)

HONORS/AWARDS/SPECIAL LECTURES

Early Career Award, American Psychological Association, 1977
Northwestern University Award for Excellence in Teaching, 1978
Career Development Award, National Institutes of Health, 1978-83
Fellow, American Association for the Advancement of Science, Elected 1987
Fellow, Association for Psychological Science, Elected 1990
Fellow, Japan Society for Promotion of Science, 1992, 2004
William Evans Professorship, Otago University, 1995
Earl Sutherland Prize, Vanderbilt University, 2000
Wolfgang Kohler Memorial Lecture, Dartmouth College, 2001
Centennial Professor, Vanderbilt University, 2000
Distinguished Alumni Award, University of Texas, Arlington, 2002
Distinguished Faculty Award, Vanderbilt University, 2002
Fellow, Society of Experimental Psychologists, Elected 2005

Chancellor's Research Award, Vanderbilt University, 2004
Fellow, American Academy of Arts & Sciences, Elected in Class of 2006
Helmholtz Lecture, Utrecht University, 2006
Ig Nobel Prize Winner, AIR/Harvard, 2006
Vanderbilt University College of Arts & Science Graduate Mentoring Award, 2006
Vanderbilt Department of Psychology Outstanding Alumni Award, 2007
Jefferson Award, Vanderbilt University, August 2008
University of Sydney International Visiting Research Fellow, 2009
Fellow, Association for Research in Vision & Ophthalmology, 2010
Foreign Scholar, World Class University Initiative, National Research Foundation, Korea, 2010-2013
Ralph George Memorial Lecture, Berry College, 2011
Keynote Address, Asia-Pacific Conference on Vision, 2012
Member, National Academy of Sciences, Elected in Class of 2012
Elected Fellow Psychonomic Society, 2014
17th Annual Pinkel Endowed Lecture, U. Pennsylvania, 2015
Keynote Address, Annual Meetings of the Japan Psychological Association, Nagoya Japan, 2015
International Research Collaboration Award, University of Sydney, 2016.
Keynote Address, China Vision Science Society, Qufu China, July 2017
Robert Boynton Memorial Address, Rochester University, February 2018
Irvin Borish Scholars Award, University of Indiana, November 2018
Jeffrey Nordhaus Award, Excellence in Teaching, Vanderbilt University 2020
Harvie Branscomb Distinguished Professor Award, Vanderbilt University 2023

RESEARCH SUPPORT

External

National Institutes of Health EY014999: "Binocular Vision after Long-Term Adaptation to Ocular Optics", 2018-2023 (co-PI with Geunyung Yoon and others).
National Institutes of Health MH109225-01: "Peripersonal space representation as a basis for social deficits in autism and schizophrenia spectrum disorders", 2016-2019 (co-PI with Carisa Cascio and others)
National Institutes of Health EY022752: "Relation of GABA levels in visual cortex to interocular suppression" 2013-2016.
Korea Science and Engineering Foundation/Ministry of Education, Science and Technology R31-10089: "Resolution of perceptual ambiguity" 2008-20013 (co-PI with S.H. Lee)
National Institutes of Health EY13358: "Binocular rivalry in human vision" 2000-2012.
National Institutes of Health EY16752 "Traveling waves in visual cortex during binocular rivalry" 2005-2008 (co-PI with D. Heeger and E. Seidmann).
National Institutes of Health EY014437: "Effective connectivity in brain imaging vision" 2003-2007
National Institutes of Health EY07760: "Mechanisms of perceptual organization in human vision" 2000-2008
National Science Foundation 0121962: "Imaging brain areas involved in biological motion perception" 2001-2002
Department of Naval Research/Defense University Research Instrumentation Program: "Instrumentation for fMRi Research" 1999 – 2002.
National Science Foundation grant BCS-0079579: "Instrumentation for Cognitive Neuroscience Brain Imaging" (2000 - 2001)
National Institutes of Health EY07760: "Binocular vison and motion perception" 1988 - 2000.
National Science Foundation BNS87-17204: "Texture and form perception" 1987 - 1991.
National Science Foundation grant BNS84-18731: "Psychophysical Studies of Binocular Rivalry" 1985-1988.
National Institutes of Health grant EY01596: "Spatial Vision in Normal and Visually-deprived Cats" 1976-1986.
National Science Foundation grant BNS83-40069: "Binocular Vision" 1982-1985.
National Science Foundation grant BNS75-17073: "Spatial Vision" 1975-1977.

Institutional (competitive awards)

Trans-Institutional Programs Initiative (Vanderbilt University): "Enhancing Research and Educational Missions of the Vanderbilt Brain" 2017-2019.
Discovery Grant Program (Vanderbilt University): "Impact of sensory eye dominance on binocular vision" 2015-2017.
Research Development Grant (Macquarie University - Partner Investigator): "Skilled Decoding of Dynamic Faces: Interactions between Perception, Action, and Emotion" 2012.
International Opportunity Program (Vanderbilt University): "Neural bases of visual awareness" 2007.
Discovery Grant Program (Vanderbilt University): "Brain Imaging and Visual Perception" 1999 – 2003.

UNIVERSITY/ADMINISTRATIVE EXPERIENCE

Vanderbilt

Professor of Psychology, Vanderbilt University, 1988-present
Centennial Professor, Vanderbilt University, 2000 - present
Professor of Ophthalmology and Visual Science, 2007 - present
Chairman, Department of Psychology, Vanderbilt University, 1988 – 1996; 2002; 2004-06
Associate Chair, Department of Psychology, Vanderbilt University, 2016-2021
Vanderbilt Vision Research Center Investigator, Vanderbilt University, 1989 - present
Kennedy Center Investigator, Vanderbilt University, 1988 - present
Member, Committee on Integrative & Cognitive Neuroscience, 1998 - present
Founding Member, Graduate Research & Education Advisory Board, Vanderbilt, 2019 - 2021
Organizer/Ex-Officio Member, External Advisory Committee, Vanderbilt Brain Institute, 2017 – present
Faculty Mentor, Vanderbilt Undergraduate Research Journal, 2023 - present
Co-Chair, Vanderbilt Brain Institute Directorship Search Committee, 2016 - 2017
College of Arts & Science College Scholars Admission Committee, 2018 - present
Chief of Staff, Chancellor Search Committee, 2007 - 2008
Neuroscience Council Member, Vanderbilt University, 2004 -- 2006
Steering Committee Chair, NeuroImaging Center, Vanderbilt University, 2000 - 2003
Member, Kennedy Center Directorship Search Committee, 2000
Member, Arts & Science Faculty Council, Vanderbilt University, 1995 - 1997
Member & Subcommittee Chair, University Research Council, Vanderbilt University, 1998 - 2002
Member, Provost's Committee on Teaching Evaluation, 1992
Chairman, Vanderbilt University Arts & Science Deanship Search Committee, 1992/93
Member, Vanderbilt University Provost Search Committee, 1992/93
Member, Vanderbilt University Peabody Deanship Search Committee, 1989/91

Seoul National University

Professor of Brain and Cognitive Sciences, 2009 – 2013, funded by World Class University Initiative, Korea Science and Engineering Foundation

Northwestern University

Professor of Psychology and Neurobiology/Physiology, Northwestern University, 1981-1988
Associate Professor of Psychology, Northwestern University, 1977-1981
Assistant Professor of Psychology, Northwestern University, 1974-1977
Director of Undergraduate Studies, Psychology Department, Northwestern University, 1976-1977
Chairman, Task Force on Cognitive Science, Northwestern University
Neuroscience Steering Committee Member, Northwestern University

PROFESSIONAL SERVICE

Editorial Service: Section Editor, Vision Research 1999 - 2002; Editorial Board Member (past and/or present): Proceedings of the National Academy of Science, Psychological Review, Journal of Experimental Psychology: Human Perception & Performance; Perception & Psychophysics, Vision Research, Journal of Vision, Annual Review of Psychology, Neuroscience of Consciousness
Chair, Selection Committee for Early Career Award, American Psychological Association, 1998

Member Executive Committee, Council of Graduate Departments of Psychology, 1988-91.
Member Committee on Vision, National Academy of Sciences, 1985 - 1988
National Science Foundation Panel Member, Sensory Physiology and Perception, 1985 - 1988
Program Committee Member, Association for Research in Vision and Ophthalmology, 1983 -1985 (Chair, 1985).
Ad Hoc Member, NIH Study Section (multiple times)
Member Executive Committee, Vision Sciences Society 2001 - 2006.
Advisory Group Member, NIH Program for Centers of Biomedical Research Excellence, 2006-2014.
Review Panel, Ford Foundation Fellowship Award Program, 2014
Membership Committee, National Academy of Sciences, Section 52, 2016-2021
National Academy of Sciences Troland Award Selection Committee, 2018 – 2019; 2020

TEACHING INTERESTS

Perception, Brain and Consciousness, Nature of Reality, Art/Mind/Brain, History of Psychology

PUBLICATIONS

h-index = 92; i10 index = 281
ORCID: https://orcid.org/0000-0001-8697-6239

1. Bernstein, I.H., Blake, R.R., & Hughes, M.H. (1968) Effects of time and event uncertainty upon sequential information processing. *Perception & Psychophysics*, 3, 177-184.
2. Blake, R.R. & Fox, R. (1969) Visual form recognition threshold and the psychological refractory period. *Perception & Psychophysics*, 5, 46-49.
3. Bernstein, I., Clark, M.H. & Blake, R.R. (1970) Sensitivity and decisional effects in the psychological refractory period. *Perception & Psychophysics*, 7, 33-37.
4. Blake, R.R., Wales, R., & Ray, W.J. (1970) Effects of rule structure, sensitivity distribution, and number of trials on threshold estimation by method of limits: A computer simulation. *Perceptual and Motor Skills*, 30, 719-722.
5. Blake, R., Fox, R. & Lappin, J. Invariance in reaction time classification of same and different letter pairs. *Journal of Experimental Psychology*, 1970, 85, 133-137.
6. Wales, R., & Blake, R.R. (1970) Rule for obtaining 75% threshold using the staircase method. *Journal of the Optical Society of America*, 60, 284-285.
7. Blake, R.R., Fox, R., and McIntyre, C. (1971) Stochastic properties of stabilized-image binocular rivalry alternations. *Journal of Experimental Psychology*, 88, 327-332.
8. Fox, R., & Blake, R. (1971) Stereoscopic vision in the cat. *Nature*, 233, 55-56.
9. Westendorf, D.H., Blake, R., & Fox, R. (1972) Binocular summation of equal-energy flashes of unequal duration. *Perception & Psychophysics*, 12, 445-448.
10. Blake, R., & Fox, R. (1972) Interocular transfer of adaptation to spatial frequency during retinal ischaemia. *Nature*, 240, 76-77
11. Fox, R., Blake, R., & Bourne, J.R. (1973) Visual evoked cortical potentials during pressure-blinding. *Vision Research*, 13, 501-503.
12. Blake, R., & Fox, R. (1973) The psychophysical inquiry into binocular summation. *Perception & Psychophysics*, 14, 161-185.
13. Blake, R. & Fox, R. (1974) Binocular rivalry suppression: Insensitive to spatial frequency and orientation change. *Vision Research*, 14, 687-692.
14. Blake, R., Crawford, M.L.J., & Hirsch, H.V.B. (1974) Consequences of alternating monocular occlusion on eye alignment and convergence in cats. *Investigative Ophthalmology*, 13, 121-126.
15. Blake, R., & Fox, R. (1974) Adaptation to "invisible" gratings and the site of binocular rivalry suppression. *Nature*, 249, 488-490.
16. Blake, R., Fox, R., & Westendorf, D. (1974) Visual size constancy occurs after binocular rivalry. *Vision Research*, 14, 585-586.
17. Blake, R., & Crawford, M.L.J. (1974) Development of strabismus in Siamese cats. *Brain Research*, 77, 492-496.

18. Blake, R., Cool, S.J., & Crawford, M.L.J. (1974) Visual resolution in the cat. *Vision Research*, 14, 1211-1217.
19. Crawford, M.L.J., Blake, R., Cool, S.J., & von Noorden, G.(1975) Physiological consequences of unilateral and bilateral eye closure in macaque monkeys: Some further observations. *Brain Research*, 84, 150-155.
20. Blake, R., & Hirsch, H.V.B. (1975) Binocular depth discrimination in normal and specially-reared cats. *Science*, 190, 1114-1116.
21. Blake, R., Camisa, J., & Antoinetti, D.N. (1976) Binocular depth discrimination depends on orientation. *Perception & Psychophysics*, 20, 1113-1118.
22. Blake, R. & Lehmkuhle, S. (1976) On the site of strabismic suppression. *Investigative Ophthalmology*, 15, 660-663.
23. Blake, R. & Antionetti, D.N. (1976) Abnormal visual resolution in the Siamese cat. *Science*, 194, 109-110.
24. Camisa, J., Blake, R., & Lema, S.A. (1977) Effects of temporal modulation on the oblique effect in humans. *Perception*, 6, 165-171.
25. Blake, R. & Levinson, E.(1977) Spatial properties of binocular neurones in the human visual system. *Experimental Brain Research*, 27, 221-232.
26. Blake, R. (1977) Threshold conditions for binocular rivalry. *Journal of Experimental Psychology*, 3, 251-257.
27. Lema, S.A., & Blake, R. (1977) Binocular summation in normal and stereoblind humans. *Vision Research*, 17, 691-695.
28. Blake, R., & Camisa, J. (1977) Temporal aspects of spatial vision in the cat. *Experimental Brain Research*, 28, 325-333.
29. Camisa, J., Blake, R., & Levinson, E. (1977) Visual motion perception in the cat is directionally selective. *Experimental Brain Research*, 29, 429-432.
30. Blake, R., & Bellhorn, R. (1978) Visual acuity in cats with central retinal lesions. *Vision Research*, 18, 15-18.
31. Blake, R., & Camisa, J. (1978) Is binocular vision always monocular? *Science*, 200, 1497-1499
32. Levinson, E., & Blake, R. (1979) Stereopsis by harmonic analysis. *Vision Research*, 19, 73-78.
33. Blake, R. & Camisa, J. (1979) The inhibitory nature of binocular rivalry suppression. *Journal of Experimental Psychology*, 5, 315-323.
34. Blake, R. & Lema, S.(1978) Inhibitory effect of binocular rivalry suppression is independent of orientation. *Vision Research*, 18, 541-554.
35. Blake, R., & Cormack, R. (1979) Psychophysical evidence for a monocular visual cortex: Utrocular discrimination in normal and stereoblind humans. *Science*, 203, 274-275.
36. Blake, R. & Overton, R. (1979) The site of binocular rivalry suppression. *Perception*, 8, 143-152.
37. Blake, R. & Cormack, R. (1979) Does contrast disparity generate stereopsis? *Vision Research*, 19, 913-915.
38. Blake, R. & Cormack, R. (1979) On utrocular discrimination. *Perception & Psychophysics*, 26, 53-68.
39. Blake, R. & Mills, J. (1979) Pattern and flicker detection examined in terms of the naso-temporal division of the retina. *Perception*, 8, 548-555.
40. Blake, R. (1979) The visual system of the cat. *Perception & Psychophysics*, 26, 423-448.
41. Blake, R. & Rush, C. (1980) Temporal properties of binocular mechanisms in human vision. *Experimental Brain Research*, 38, 333-340.
42. Blake, R. & DiGianfillipo, A.(1980) Spatial vision in cats with selective neural deficits. *Journal of Neurophysiology*, 43, 1197-1205.
43. Martens, W. & Blake, R. (1980) Uncertainty impairs grating detection in the cat. *Perception & Psychophysics*, 27, 229-231.
44. Blake, R., Westendorf, D. & Overton, R. (1980) What is suppressed during binocular rivalry? *Perception*, 9, 223-231.
45. Cormack, R. & Blake, R. (1980) Do the two eyes constitute separate visual channels? *Science*, 207, 1100-1101.
46. Blake, R., Breitmeyer, B. & Green, M. (1980) Contrast sensitivity and binocular brightness. *Perception & Psychophysics*, 27, 180-191.

47. Blake, R., Martens, W., Garrett, A. & Westendorf, D. (1980) Estimating probability summation for binocular reaction time. *Perception & Psychophysics*, 27, 375-378.
48. Blake, R., Overton, R. & Lema-Stern, S. (1981) Interocular transfer of visual aftereffects. J*ournal of Experimental Psychology: Human Perception and Performance*, 7, 367-381.
49. Green, M. & Blake, R. (1981) Phase effects in monoptic and dichoptic temporal integration: flicker and motion detection. *Vision Research*, 21, 365-372.
50. Blake, R. & Martens, W. (1981) Critical bands in cat spatial vision. *Journal of Physiology*, 314, 175-187.
51. Blake, R. (1981) Binocular rivalry and perceptual inference. *Perception &Psychophysics*, 29, 77-78.
52. Leguire, L., Blake, R. & Sloane, M. (1981) A novel visual illusion of bars made from triangles. *Science*, 212, 1172-1175.
53. Martens, W., Blake, R., Sloane, M. & Cormack, R. (1981) What masks utrocular discrimination. *Perception & Psychophysics*, 30, 521-532.
54. Blake, R., Sloane, M., & Fox, R. (1981) Further developments in binocular summation. *Perception & Psychophysics*, 30, 266-276.
55. Leguire, L. & Blake, R. (1982) The role of threshold in afterimage visibility. *Journal of the Optical Society of America*, 72, 1232-1237.
56. Westendorf, D., Blake, R., Sloane, M., & Chambers, D. (1982) Binocular summation occurs during interocular suppression. *Journal of Experimental Psychology: Human Perception and Performance*, 8, 81-90.
57. Blake, R. (1982) Binocular vision in normal and stereoblind individuals. *American Journal of Optometry and Physiological Optics*, 59, 969-975.
58. Leguire, L., Blake, R., & Sloane, M. (1982) The square-wave illusion and phase anisotropy of the human visual system. *Perception*, 11, 547-556.
59. Holopigian, K. & Blake, R.(1983) Spatial vision in strabismic cats. *Journal of Neurophysiology*, 50, 287-296.
60. Zimba, L. & Blake, R. (1983) Binocular rivalry and semantic processing: Out of sight, out of mind. *Journal of Experimental Psychology: Human Perception and Performance*, 9, 807-815.
61. Holopigian, K. & Blake, R. (1984) Abnormal spatial frequency channels in esotropic cats. *Vision Research*, 24, 677-687.
62. Sloane, M. & Blake, R. (1984) Selective adaptation of monocular and binocular neurons in human vision. *Journal of Experimental Psychology: Human Perception and Performance*, 10, 406-412.
63. Greenwald, M., Greenwald, S., & Blake, R. (1983) Long-lasting visual aftereffect from viewing a video display. *New England Journal of Medicine*, 309, 315.
64. Blake, R. & Petrakis, I. (1984) Contrast discrimination in the cat. *Behavioral Brain Research*, 12, 155-162.
65. Boothroyd, K. & Blake, R. (1984) Stereopsis from disparity of complex grating patterns. *Vision Research*, 24, 1205-1222.
66. Blake, R. & Holopigian, K. (1985) Orientation selectivity in cats and in humans assessed by masking. *Vision Research*, 25, 1459-1468.
67. Blake, R., Holopigian, K., & Jauch, M. (1985) Another visual illusion involving orientation. *Vision Research*, 25, 1469-1476.
68. Blake, R. & Boothroyd, K. (1985) The precedence of binocular fusion over binocular rivalry. *Perception & Psychophysics*, 37, 114-124.
69. Blake, R., Zimba, L., & Williams, D. (1985) Binocular correspondence and visual motion. *Biological Cybernetics*, 52, 391-397.
70. Greenwald, M. & Blake, R. (1985) Prolonged complementary chromatopsia in users of video display terminals. *American Journal of Ophthalmology*, 99, 735-736.
71. Blake, R. & Bravo, M. (1985) Binocular rivalry suppression interferes with phase adaptation. *Perception & Psychophysics*, 38, 277-280.
72. Holopigian, K., Blake, R., & Greenwald, M. (1986) Selective losses in binocularity in anisometropic amblyopes. *Vision Research*, 26, 621-630.
73. O'Shea, R.P. & Blake, R. (1986) Dichoptic temporal frequency differences do not lead to binocular rivalry. *Perception & Psychophysics*, 39, 59-63.

74. Halpern, L., Blake, R., & Hilenbrand, J. (1986) Psychoacoustics of a chilling sound. *Perception & Psychophysics*, 39, 77-80.
75. Blake, R., Holopigian, K., & Wilson, H.R. (1986) Spatial frequency discrimination in cats. *Journal of the Optical Society of America*, 3,1442-1449.
76. Halpern, L., Patterson, R., & Blake, R. (1986) Are stereoacuity and binocular rivalry related? *American Journal of Optometry and Physiological Optics*, 1987, 64, 41-44.
77. Halpern, L., Patterson, R., & Blake, R. (1987) What causes tilt from spatial frequency disparity. *Vision Research*, 27, 1619-1630.
78. O'Shea, R.P. & Blake, R. (1987) Depth without disparity in random dot stereograms. *Perception & Psychophysics*, 42, 205-214.
79. Blake, R. & O'Shea, R. (1988) "Abnormal fusion" of stereopsis and binocular rivalry. *Psychological Review*, 95, 151-154.
80. Sekuler, R. & Blake, R. (1988) Sensory underload. *Psychology Today*, 48-51.
81. Wilson, H.R., Blake, R., & Pokorny, J. (1988) Limits of binocular fusion in the short wave sensitive cones. *Vision Research*, 28, 555-562.
82. Blake, R. (1988) Cat spatial vision. *Trends in NeuroScience*, 11, 78-82.
83. Westendorf, D. & Blake, R. (1988) Binocular reaction times to contrast increments. *Vision Research*, 28, 355-359.
84. Rose, D., Blake, R., & Halpern, L. (1988) Disparity range for binocular summation. *Investigative Ophthalmology & Visual Science*,, 29, 283-290.
85. Sloane, M. & Blake, R. (1988) Perceptually unequal spatial frequencies do not yield stereoscopic tilt. *Perception & Psychophysics*, 42, 569-575.
86. Holopigian, K., Blake, R., & Greenwald, M. (1988) Clinical suppression and amblyopia. *Investigative Ophthalmology & Visual Science*, 29, 444-451.
87. Blake, R. (1988) Dichoptic reading: The role of meaning on binocular rivalry. *Perception & Psychophysics*, 44, 133-141.
88. Bravo, M., Blake, R., & Morrison, S. (1988) Cats see subjective contours. *Vision Research*, 28, 861-865.
89. Rose, D. & Blake, R. Mislocalization of diplopic images. (1988) *Journal of the Optical Society of America A*, 5, 1512-1521.
90. Blake, R. (1989) A neural theory of binocular rivalry. *Psychological Review*, 96, 145-167.
91. Halpern, D.L. & Blake, R. (1988) How contrast affects stereoacuity. *Perception*, 17, 483-495.
92. Nawrot, M. & Blake, R. (1989) Neural integration of information specifying structure from stereopsis and motion. *Science*, 244, 716-718.
93. Mueller, T. J. & Blake, R. (1989) A fresh look at the temporal dynamics of binocular rivalry. *Biological Cybernetics*, 61, 223-232.
94. Bravo, M. & Blake, R. (1990) Preattentive vision and perceptual groups. *Perception*, 19, 515-522.
95. Mowafy, L., Blake, R. & Lappin, J.S. (1990) Detection and discrimination of coherent motion. *Perception & Psychophysics*, 48, 583-592.
96. Blake, R., Westendorf, D. & Fox, R. (1990) Temporal perturbations of binocular rivalry. *Perception & Psychophysics*., 48, 593-602. PMID: 2270191
97. Wiesenfelder, H. & Blake, R. (1990) The neural site of binocular rivalry relative to the analysis of motion in the human visual system. *Journal of Neuroscience*. 10. 3880-3888.
98. Wilson, H.R., Blake, R. & Halpern, D.L. (1991) Coarse spatial scales constrain the range of binocular fusion on fine scales. *Journal of the Optical Society of America, A*, 8, 229-236.
99. Nawrot, M. & Blake, R. (1991) On the interplay between stereopsis and structure from motion. *Perception & Psychophysics*. 49, 230-244.
100. Wiesenfelder, H. & Blake, R. (1991) Apparent motion can survive binocular rivalry suppression. *Vision Research*. 31, 1589-1600.
101. Lehky, S. & Blake, R. (1991) Organization of binocular pathways: Modeling and data related to rivalry. *Neural Computation*. 3, 44-53.
102. Nawrot, M. & Blake, R. (1991) A neural network model of kinetic depth and stereopsis. *Visual Neuroscience*, 6, 219-227.
103. Yang, Y. & Blake, R. (1991) Spatial frequency tuning of human stereopsis. *Vision Research,* 31, 1177-1189.

104. Blake, R., Yang, Y. & Wilson, H.R. (1991) On the coexistence of stereopsis and binocular rivalry. *Vision Research*., 31, 1191-1203. PMID: 1891811
105. Vaitkevicius, H., Blake, R. & Yang, Y. (1991) Dependence of depth perception on disparity and eccentricity. *Experimental Biology*, 2, 72-89.
106. Blake, R., Westendorf, D.H. & Yang, Y. (1991) Discriminating binocular fusion from false fusion. *Investigative Ophthalmology & Visual Science*. 32, 2821-2825. PMID: 1894479
107. Blake, R. & Wilson, H.R. (1991) Neural models of stereoscopic vision *Trends in NeuroScience*. 14, 445-452. PMID: 1722363
108. Yang, Y., Rose, D. & Blake, R. (1992) On the variety of percepts associated with dichoptic viewing of dissimilar monocular stimuli. *Perception*., 21, 47-62.
109. Fukuda, H. & Blake, R. (1992) Spatial interactions in binocular rivalry. *Journal of Experimental Psychology: Human Perception & Performance*., 18, 362-370. PMID: 1593223
110. Cormack, R., Blake, R. & Hiris, E. (1992) Misdirected visual motion in the peripheral visual field. *Vision Research*. 32, 73-80.
111. Yu, K. & Blake, R. (1992) Do recognizable figures enjoy an advantage in binocular rivalry? *Journal of Experimental Psychology: Human Perception & Performance*. 18, 1158-1173.
112. Blake, R., O'Shea, R.P. & Mueller, T.J. (1992) Spatial zones of binocular rivalry in central and peripheral vision. *Visual Neuroscience*., 8, 469-478.
113. Rizzo, M., Nawrot, M., Blake, R. & Damasio, A. (1992) A human visual disorder resembling area V4 dysfunction in the monkey. *Neurology*., 42, 1175-1180.
114. Bravo, M. & Blake, R. (1992) The contributions of figure and ground textures to segmentation. *Vision Research*. 32, 1793-1800.
115. Wiesenfelder, H. & Blake, R. (1992) Binocular rivalry suppression disrupts recovery from motion adaptation. *Visual Neuroscience*, 9, 143-148.
116. Hiris, E. & Blake, R. (1992) Another perspective on the visual motion aftereffect. *Proceedings of the National Academy of Science* 89, 9025-9028. PMC50057
117. Blake, R. (1993) Cats perceive biological motion. *Psychological Science* 4, 54-57.
118. Nawrot, M. & Blake, R. (1993) On the perceptual identity of dynamic stereopsis and kinetic depth. *Vision Research*, 33, 1561-1571.
119. Blake, R. & Hiris, E. (1993) Another means for measuring the motion aftereffect. *Vision Research*, 33, 1589-1592. PMID: 8351831
120. Nawrot, M. & Blake, R. (1993) Visual alchemy: stereoscopic adaptation produces kinetic depth from random noise. *Perception,* 22, 635-642.
121. Schall, J.D., Nawrot, M., Blake, R. & Yu, K. (1993) Visually guided attention is neutralized when informative cues are visible but unperceived. *Vision Research.* 33, 2057-2064.
122. Harrad, R.A., McKee, S.P., Blake, R. & Yang, Y. (1994) Binocular rivalry disrupts stereopsis. *Perception*.23, 15-28.
123. Blake, R. (1994) Gibson's inspired but latent prelude to visual motion perception. *Psychological Review* 101, 324-328. PMID: 8022963
124. O'Shea, R.P., Blake, R. & Wolfe, J. (1994) Binocular rivalry and fusion under scotopic luminance. *Perception*., 23, 771-784.
125. Gilden, D., Blake, R. & Hurst, G. (1995) Neural adaptation of imaginary motion. *Cognitive Psychology*, 28, 1-16.
126. Yang, Y. & Blake, R. (1995) On the accuracy of surface reconstruction from disparity information. *Vision Research,* 35, 949-960. PMID: 7762152
127. Hiris, E. & Blake, R. (1995) Discrimination of global motion when speed and direction of local motion vary. *Journal of Experimental Psychology: Human Perception and Performance,* 21, 308-317.
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Motion coherence is perceived as information entropy. Meetings of the Association for Research in Vision and Ophthalmology, Sarasota, 1993, (co-authored with D. Gilden and E. Hiris).

Center/surround interactions in binocular rivalry between dichoptic motion signals. Meetings of the Association for Research in Vision and Ophthalmology, Sarasota, 1993, (co-authored with T. Aiba and H. Fukuda).

Aftereffects of adaptation to different types of motion. Meetings of the Association for Research in Vision and Ophthalmology, Sarasota, 1993, (co-authored with V. Steiner and D. Rose).

Motion coherence is perceived as information entropy. Meetings of the Psychonomic Society, Washington DC, 1993 (co-authored with D. Gilden, E. Hiris).

Coherent perceived flow in dynamic random noise. Meetings of the Association for Research in Vision and Ophthalmology, Sarasota, 1994, (co-authored with V. Steiner and D. Rose).

Perception of coherent motion is mediated by a single broadband spatial frequency channel. Meetings of the Association for Research in Vision and Ophthalmology, Sarasota, 1994, (co-authored with Y. Yang).

Reductions in motion strength produced by spatially superimposing different motion structures. Meetings of the Association for Research in Vision and Ophthalmology, Sarasota, 1994, (co-authored with V. Steiner).

Size-distance invariance with kinetic depth and dynamic stereopsis. Meetings of the Association for Research in Vision and Ophthalmology, Sarasota, 1994, (co-authored with M. Nawrot).

Repulsion of motion directions despite depth segregation. Meetings of the Association for Research in Vision and Ophthalmology, Sarasota, 1994, (co-authored with E. Hiris).

Memory for visual motion. Meetings of the Psychonomic Society, St Louis, 1994 (co-authored with N. Cepeda and E. Hiris).

Interactions between curved pattern and rotational motion mechanisms. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1995, (co-authored with D. Rose).

Visual binding of features over space and spatial frequency. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1996, (co-authored with Y. Yang)

Motion perception in multip-aperture displays. Meetings of the European Conference on Visual Perception. Strasbourgh France, 1996 (co-authored with D. Alais).

Effect of synchronous and non-synchronous contrast modulation on global motion perception. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1997, (co-authored

with D. Alais)
Spatial structure influences perception of correlated motion of components of an image. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1997, (co-authored with Y. Yang)
Directional discrimination, but not motion detection, is anisotropic. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1997, (co-authored with B. Gros)
Can context boost predominance during binocular rivalry? Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1997, (co-authored with V. Ahlstrom & D. Alais)
Temporal binding of spatial features in depth perception. Meetings of the European Conference on Visual Perception, Helsinki Finland, 1997 (co-authored with H. Kojima).
Star Trek in the classroom. Meetings of the American Psychological Society Teaching Institute, Washington D.C., 1998.
On the generality of perception of biological motion. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1998, (co-authored with V. Ahlstrom, A. Ahlstrom).
What rivals during binocular rivalry? Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1998, (co-authored with S. Lee).
Stereoscopic feature matching depends on dichoptic luminance disparity. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1998, (co-authored with K. Kham).
Figure segregation by disparity suffers when a stereo-form is sandwiched between background depth planes. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1998, (co-authored with H. Kojima).
Synchronized contrast modulation promotes cooperativity among suppression zones in binocular rivalry. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1998, (co-authored with D. Alais).
Temporal correlation of contrast modulations enhances or counteracts grouping by proximity. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1998, (co-authored with Y. Yang).
Motion perception at scotopic light levels. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1998, (co-authored with E. Grossman).
Binding of suppression zones in binocular rivalry with synchronized contrast modulation. Meetings of the European Conference on Visual Perception, Oxford UK, 1998 (co-authored with D. Alais).
The tempo of vision: spatial structure from temporal structure. Meetings of the Annual Interdisciplinary Conference, Jackson Hole WY, 1999.
Spatial structure created exclusively from temporal structure. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1999, (co-authored with S. Lee).
Dynamic texture explained: temporal frequency and 2D shape perception. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1999, (co-authored with M. Donnelly & S. Lee).
Stereo-capture by cyclopean captors and ambiguous prisoners. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1999, (co-authored with K. Kham).
fMRI comparison of neural loci activated by biological motion, kinetic boundaries and uniform motion. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1999, (co-authored with E. Grossman, M. Donnelly, R. Price, V. Morgan & G. Neighbor).
Quantifying attentional modulation of low level motion mechanisms by directional changes in bivectorial motion aftereffects. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 1999, (co-authored with D. Alais & B. Gros).
Neuronal activity in human primary visual cortex correlates with perception during binocular rivalry. Meetings of the Neuroscience Society (25:5) Miami 1999 (co-authored with A. Polansky, J. Braun, D. Heeger).
Visual Grouping By Spatial and Temporal Structure. Symposium on Neural binding of space and time: object binding. University of Leipzig, Germany,16-18 March 2000 (co-authored with SH Lee).
Auditory motion modulates visual motion adaptation. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 2000, (co-authored with E. Grossman).
Spatial and temporal structure jointly promote visual grouping. Meetings of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale, 2000, (co-authored with S. Lee).
What produces visual grouping from temporal structure? Meetings of the Association for Research in

Vision and Ophthalmology, Ft. Lauderdale, 2000, (co-authored with S. Lee).
Inverted vs upright biological motion, real and imagined: Does the brain see the differences? 4th Annual Symposium on Functional Brain Imaging in Vision, Ft. Lauderdale, 2000 (co-authored with E. Grossman)
Neural activity on posterior STS correlated with inverted, distorted and imagined biological motion. Neuroscience Society, New Orleans 2000, Society for Neuroscience Abstracts, 26: abstr. 593.4 (co-authored with E. Grossman and G. Neighbor).
Visual binding of synesthetic colors to achromatic forms. Meetings of the Vision Sciences Society, Sarasota, 2001 (with T. Palmeri, R. Maraois, W. Whetsell)
Dissociation in the transfer of perceptual learning based on visual temporal structure. Meetings of the Vision Sciences Society, Sarasota, 2001 (with C. Aslin & M. Chun)
Does context influence binocular rivalry suppression? Meetings of the Vision Sciences Society, Sarasota, 2001 (with K. Sobel)
V1 activity is reduced during binocular rivalry. Meetings of the Vision Sciences Society, Sarasota, 2001 (with S-H Lee)
Structured dynamic reference frames for visual perception, Meetings of the Vision Sciences Society, Sarasota, 2001 (with D. Tadin, J.S. Lappin & E. Grossman)
Neural concomitants of binocular rivalry. Meetings of the Society for Psychophysiological Research, Montreal, 2001 (invited talk).
Visual perception is affected by high-frequency travelling waves of neural excitability. Meetings of the Society for Neuroscience, San Diego CA 2001 (co-authored with S-H Lee).
A dissociation between brain areas involved in seeing objects and seeing human movement. Meetings of the Society for Neuroscience, San Diego CA 2001 (co-authored with E. Grossman).
Temporal precision of visual grouping from temporal structure. Meetings of the Vision Sciences Society, Sarasota, 2002 (co-authored with S.H. Lee). http://www.journalofvision.org/2/7/233/
Local eye rivalry can yield global, interocular dominance. Meetings of the Vision Sciences Society, Sarasota, 2002 (co-authored with S.H. Lee).
An investigation of neural activity associated with viewing point-light animal, face and hand movements. Meetings of the Vision Sciences Society, Sarasota, 2002 (co-authored with E. Grossman). http://www.journalofvision.org/2/7/341/
Subjective contours and binocular rivalry. Meetings of the Vision Sciences Society, Sarasota, 2002 (co-authored with K. Sobel). http://www.journalofvision.org/2/7/460/
Reconciling rival ideas about binocular rivalry. Conference on Perceptual Ambiguity, San Miniateo, IT, 2002.
Binocular rivalry as a tool for studying the NCC. Toward a Science of Consciousness, Tucson AZ, 2002.
A parametric fMRI study of neural activity in human posterior superior temporal sulcus during visual perception of biological motion. Meetings of the Forum of European Neurosciences, Paris, 2002 (co-authored with E. Grossman).
Wheatstone's Enduring Contributions to the study of binocular rivalry. Invited address, European Conference on Visual Perception, Glasgow Scotland, 2002.
Biologically relevant events are undetectable during suppression phases of binocular rivalry. Meetings of the Society for Neuroscience, Orlando FL, 2002 (co-authored with C.-Y. Kim & E. Grossman).
Perceptual reality of synesthetic colors and their interactions with real colors. Annual Meeting of the American Synesthesia Association, New York, 2003 (co-authored with T. Palmeri and others).
Motion prolongs dominance during binocular rivalry. Meetings of the Vision Sciences Society, Sarasota, 2003 (co-authored with K. Sobel).
Traveling waves of activity in V1 corelate with perceptual dominance during binocular rivalry. Meetings of the Vision Sciences Society, Sarasota, 2003 (co-authored with S.H. Lee & D. Heeger).
Brain activity reflects perceptual learning of point-light biological motion. Meetings of the Vision Sciences Society, Sarasota, 2003 (co-authored with E. Grossman & C.Y. Kim).
High temporal precision for perceiving event offsets. Meetings of the Vision Sciences Society, Sarasota, 2003 (co-authored with D. Tadin & J. Lappin). http://www.journalofvision.org/3/9/187/
Synesthetic colors act like real colors and interact with real colors. Meetings of the Vision Sciences Society, Sarasota, 2003 (co-authored with C.Y. Kim and others). http://www.journalofvision.org/3/9/620/

Tactile perception facilitates resolution of visual conflict. Meetings of the Vision Sciences Society, Sarasota, 2003 (co-authored with K. Sobel & T. James).
Human MT+ and the resolution of visual structure from motion by tactile perception. International Multisensory Research Forum, Hamilton ONT, 2003 (with T. James & K. Sobel).
Tactile perception can resolve visual ambiguity. International Australasian Winter Conference on Brain Research, 2003, Queenstown, New Zealand (with K. Sobel and T. James).
Binocular rivalry suppression does impede buildup of the motion aftereffect. Annual conference of the Australasian Experimental Psychology Society, Dunedin, New Zealand, April, 2004. (with Ken Sobel and Tony Raissian). http://psy.otago.ac.nz/r_oshea/EPC04/EPC04prog.html
Preserved gain control for luminance contrast during binocular rivalry suppression. Meetings of the Vision Sciences Society, Sarasota, 2004 (co-authored with K. Watanabe). http://www.journalofvision.org/4/8/60/
When a mixed ensemble sings a common song: spatial grouping from temporal structure. Meetings of the Vision Sciences Society, Sarasota, 2004 (co-authored with S. Guttman and L. Gilroy).
Perceived 3D surface layout modulates center-surround interactions in motion. Meetings of the Vision Sciences Society, Sarasota, 2004 (co-authored with D. Tadin and others). http://www.journalofvision.org/4/8/107/
Adults are better than 6-year olds at perceiving biological motion. Meetings of the Vision Sciences Society, Sarasota, 2004 (co-authored with A. Freir and others).
Color promotes interocular grouping during binocular rivalry. Meetings of the Vision Sciences Society, Sarasota, 2004 (co-authored with C.Y. Kim). http://www.journalofvision.org/4/8/240/
Binocular rivalry suppression does not impede buildup of the motion aftereffect. Meetings of the Vision Sciences Society, Sarasota, 2004 (co-authored with K. Sobel and T. Raissian).
Cognitive factors influence perception of 3D structure from motion. Meetings of the Vision Sciences Society, Sarasota, 2004 (co-authored with L. Gilroy).
Adaptation as a tool for probing the neural correlates of consciousness. Fall Vision Meetings, Rochester NY, 2004.
What causes alternations during binocular rivalry? Meetings of the Society for Neuroscience, San Diego, 2004 (Program No. 865.1; co-authored with M. Kang and J. Schall).
Psychological tools for probing the mind. Japan Psychological Society, Niigata, Japan, 2004.
Negative afterimages generated during binocular rivalry show signs of weakness and signs of strength. Meetings of the Vision Sciences Society, Sarasota, 2005 (co-authored with L Gilroy). http://journalofvision.org/5/8/1/
When a traveling wave meets a gap on its way. Meetings of the Vision Sciences Society, Sarasota, 2005 (co-authored with S.-I. Kim and S.-H. Lee). http://journalofvision.org/5/8/2/
Eccentricity dependency of the biological motion perception. Meetings of the Vision Sciences Society, Sarasota, 2005 (co-authored with H. Ikeda and K. Watanabe **Error! Hyperlink reference not valid.**
The ups and downs of point-light displays: Sensitivity to upright and inverted biological motion. Meetings of the Vision Sciences Society, Sarasota, 2005 (co-authored with A. Freire and others). http://journalofvision.org/5/8/20/
Relative timing of center and surround signals in motion revealed by temporal reverse correlation. Meetings of the Vision Sciences Society, Sarasota, 2005 (co-authored with D. Tadin and J. Lappin). http://journalofvision.org/5/8/493/
Temporal information for spatial grouping: Structure or synchrony? Meetings of the Vision Sciences Society, Sarasota, 2005 (co-authored with S. Guttman and L. Gilroy). http://journalofvision.org/5/8/967/
Exogenous and endogenous attention influence initial dominance of binocular rivalry. Meetings of the Vision Sciences Society, Sarasota, 2005 (co-authored with S. C. Chong). http://journalofvision.org/5/8/1045/
The efficiency of biological motion perception. Meetings of the Vision Sciences Society, Sarasota, 2005 (co-authored with J. Gold and others). http://journalofvision.org/5/8/1057/
Traveling waves of dominance: Gestalt Dynamics Revisited. Meetings of the Society for Experimental Psychology, Tampa 2005.
Biological Motion in Patients with Retinitis Pigmentosa. Meetings of the Association for Research in Vision and Opthalmology, Ft. Lauderdale FL, 2006 (co-authored with Holopigian et al).
Biological Motion, psychophysical thresholds and multifocal EFGs in patients with retinitis pigmentosa.

44th Annual ISCEV Symposium, Fontevraud Abbey, France, June 2006 (co-authored with Holopigian et al).

Unseen objects influence estimation of average size. Meetings of the Vision Sciences Society, Sarasota FL, May 2006 (co-authored with Sang Chul Chong). http://journalofvision.org/6/6/44/

How to enhance the incidence of stimulus rivalry. Meetings of the Vision Sciences Society, Sarasota FL, May 2006 (co-authored with Min-Suk Kang). http://journalofvision.org/6/6/46/

Dissociating microgenesis of retinal and non-retinal adaptation. Meetings of the Vision Sciences Society, Sarasota FL, May 2006 (co-authored with Nao Tsuchiya and others). http://journalofvision.org/6/6/696/

Strength of early visual adaptation depends on visual awareness. Meetings of the Vision Sciences Society, Sarasota FL, May 2006 (co-authored with Duje Tadin and others). http://journalofvision.org/6/6/698/

Brain stimulation can make you change your mind. Meetings of the Vision Sciences Society, Sarasota FL, May 2006 (co-authored with Joel Pearson & Duje Tadin). http://journalofvision.org/6/6/849/

Are real and synesthetic colors mediated by shared neural mechanisms? Meetings of the Vision Sciences Society, Sarasota FL, May 2006 (co-authored with Chai-Youn Kim). http://journalofvision.org/6/6/1073/

Functional connectivity between color- and grapheme-selective brain areas in synesthetic observers. Meetings of the Society for Neuroscience, Atlanta GA, October 2006 (co-authored with Chai-Youn Kim).

Psychoacoustics of a chilling sound. Meetings of the Annual Interdisciplinary Conference, Jackson Hole WY 2007.

Increase of perceived speed accompanying onset of interocular suppression. Meetings of the Vision Sciences Society, Sarasota FL, May 2007 (co-authored with T. Knapen, J. Pearson, R. van eE). http://journalofvision.org/7/9/52/

Processing of fearful faces outside of awareness. Meetings of the Vision Sciences Society, Sarasota FL, May 2007 (co-authored with E. Yang, D. Zald). http://journalofvision.org/7/9/64/

Both simple and choice reaction times reveal suppressive center-surround interactions in motion perception. Meetings of the Vision Sciences Society, Sarasota FL, May 2007 (co-authored with D. Tadin, K. Grdinovac, B.P. Hubert-Wallander) http://journalofvision.org/7/9/97/

Synesthetic color appearance is immune to brightness contrast. Meetings of the Vision Sciences Society, Sarasota FL, May 2007 (co-authored with S. Hong). http://journalofvision.org/7/9/531/

Brain activity reflects implied motion in abstract paintings. Meetings of the Vision Sciences Society, Sarasota FL, May 2007 (co-authored with C.Y. Kim). http://journalofvision.org/7/9/781/

Action can influence dynamics of binocular rivalry. Meetings of the Vision Sciences Society, Sarasota FL, May 2007 (co-authored with K. Maruya, E. Yang). http://journalofvision.org/7/9/805/

Electrophysiological and psychophysical measures of pattern and motion sensitivity in patients with cone dystrophy. (2007). Annual meeting of the International Society for the Clinical Electrophysiology of Vision; Hyderabad, India, 2007 (co-authored with K. Holopigian J.M. Gallardo, S.M. Hornik SM, R.E. Carr and W. Seiple).

Stimulus motion propels traveling waves in binocular rivalry. Meetings of the European Conference on Visual Perception, Arezzo, Italy, August 2007 (co-authored with T. Knapen & R. van eE)

The role of frontal areas in alternations during perceptual bistability. Meetings of the Vision Sciences Society, Naples FL, May 2008 (co-authored with T. Knapen, J. Pearson, J. Brascamp & R. van Ee) http://journalofvision.org/8/6/254/

Suppression during binocular rivalry broadens orientation tuning. Meetings of the Vision Sciences Society, Naples FL, May 2008 (co-authored with S. Ling) http://journalofvision.org/8/6/246/

Slow changes in neural state mediate perceptual switches in intermittent binocular rivalry. Meetings of the Vision Sciences Society, Naples FL, May 2008 (co-authored with J. Brascamp, J. Pearson & A. van den Berg) http://journalofvision.org/8/6/786/

Channel-specific, monocular adaptation to dynamic Mondrian patterns revealed during binocular rivalry. Meetings of the Vision Sciences Society, Naples FL, May 2008 (co-authored with S. Hong) http://journalofvision.org/8/6/799/

A novel technique for generating perceptual waves during binocular rivalry and binocular fusion. Meetings of the Vision Sciences Society, Naples FL, May 2008 (co-authored with M. Kang) http://journalofvision.org/8/6/787/

Binocular rivalry and neural dynamics. Meetings of the International Congress of Psychology, Berlin, Germany, July 2008.

An event-related fMRI study of biological motion perception and social functioning in schizophrenia. Meeetings of the International Society of Schizophrenia Research, March 2009, San Diego (co-authored by Jejoong Kim and Sohee Park).

Depth ambiguities and adaptation aftereffects in perception of point-light biological motion. Meetings of the Vision Sciences Society, Naples FL, May 2009 (co-authored with S. Jackson) http://journalofvision.org/9/8/617/

Where orientation tuning arises. Meetings of the Vision Sciences Society, Naples FL, May 2009 (co-authored with S. Ling & J. Pearson) http://journalofvision.org/9/8/773/

Visual illusions involving contextual modulations are weak in schizophrenia and in bipolar disorder. Meetings of the Vision Sciences Society, Naples FL, May 2009 (co-authored with E. Yang and others) http://journalofvision.org/9/8/1029/

Visual perception of motion produced solely by kinesthesia. Meetings of the Vision Sciences Society, Naples FL, May 2010 (co-authored with K. Dieter & D. Tadin) http://www.journalofvision.org/content/10/7/851

Adaptation aftereffects to facial expressions viewed without visual awareness. http://www.journalofvision.org/content/10/7/623 E. Yang & S.W. Hong). http://www.journalofvision.org/content/10/7/623

Correlated effects of attention and awareness on contrast threshold elevation but not on afterimage formation. Meetings of the Vision Sciences Society, Naples FL, May 2010 (co-authored with J. Brascamp et al.). http://www.journalofvision.org/content/10/7/285

Why is continuous flash suppression so potent? Meetings of the Vision Sciences Society, Naples FL, May 2010 (co-authored with E. Yang). http://www.journalofvision.org/content/10/7/336

Plasticity of interocular inhibition with prolonged binocular rivalry. Meetings of the Vision Sciences Society, Naples FL, May 2010 (co-authored with C. Klink et al.) http://www.journalofvision.org/content/10/7/354

Perceptual indecision during perceptual bistability: the role of right frontal cortex. Meetings of the Society for Neuroscience San Diego, (November 2010 (co-authored with T. Knapen, J. Brascamp, J. Pearson, R. van Ee)

Binocular rivalry. Invited talk at Meetings of the Optical Society of American, Seattle WA (October 2011).

Transition between stereopsis and binocular rivalry is based on perceived rather than physical orientation. Meetings of the Vision Sciences Society, Naples FL, May 2011 (co-authored Adrien Chopin and Pascal Mamassian). http://www.journalofvision.org/content/11/11/301

Learning where to attend: Priming of pop-out drives target selection. Meetings of the Vision Sciences Society, Naples FL, May 2011 (co-authored with A. Kristjansson and Jan Brascamp). http://www.journalofvision.org/content/11/11/239

Semantic analysis does not occur during interocular suppression in the absence of awareness. Meetings of the Vision Sciences Society, Naples FL, May 2011 (co-authored M.S. Kang and G. Woodman). http://www.journalofvision.org/content/11/11/321

Visual perception of ambiguous structure from motion is predicted by BOLD responses in neural populations in human MT+ jointly selective for 3D depth and motion. Meetings of the Society for Neuroscience, Washington DC, November 2011 (co-authored with Hana Oh and Sang-Hun Lee).

Perceptual proof that inattention abolishes binocular rivalry. Meetings of the Vision Sciences Society, Naples FL, May 2012 (co-authored with Jan Brascamp). Video overview http://www.journalofvision.org/content/12/9/1262.abstract

Normalization regulates competition for visual awareness. Meetings of the Vision Sciences Society, Naples FL, May 2012 (co-authored with Sam Ling). http://www.journalofvision.org/content/12/9/684.abstract

Complementary spatial interactions between binocular rivalry and stimulus rivalry. Meetings of the Vision Sciences Society, Naples FL, May 2012 (co-authored with H. Sohn & S.H. Lee). Online poster http://www.journalofvision.org/content/12/9/207.abstract

Advantage of fearful faces in breaking interocular suppression is preserved after amygdala lesions. Meetings of the Vision Sciences Society, Naples FL, May 2012 (co-authored with E. Yang, M. McHugo, M. Dukic & D. Zald). http://www.journalofvision.org/content/12/9/679.abstract

Decomposition of BOLD activity into tuned and unturned components reveals cohabitation of stimulus and choice information. July 2012, Asia-Pacific Conference on Vision (co-authored with K.-W. Choe & S.H. Lee) http://i-perception.perceptionweb.com/journal/I/volume/3/article/if609

Individual differences in the perception of biological motion and fragmented figures are not correlated. July 2012, Asia-Pacific Conference on Vision (co-authored with E. Yang, A. Zadbood & S.H. Lee). http://i-perception.perceptionweb.com/journal/I/volume/3/article/if722

Center/surround motion interactions measured using a nulling procedure. July 2012, Asia-Pacific Conference on Vision (co-authored with S.H. Park & S.H. Lee). http://i-perception.perceptionweb.com/journal/I/volume/3/article/if733

Binocular rivalry requires attention. July 2012, Association for Scientific Study of Consciousness, Brighton UK (co-authored with J.W. Brascamp)

Decomposition of stimulus representations and decision-bias in population activity of human primary visual cortex. Meetings of the Vision Sciences Society, Naples FL, May 2013 (co-authored with K.W. Choe & S.H. Lee). http://www.journalofvision.org/content/13/9/1264.abstract

Perceptual suppression during stimulus rivalry diminishes contrast adaptation at eye-specific processing stages. Meetings of the Vision Sciences Society, Naples FL, May 2013 (co-authored with J. Brascamp H. Sohn &S.H. Lee). http://www.journalofvision.org/content/13/9/543.abstract

The occipital face area is causally involved in viewpoint symmetry judgments of faces. Meetings of the Vision Sciences Society, St. Petersburg, FL, May 2014 (co-authored T.C. Kietzmann et al.) J Vis August 22, 2014 14(10): 125; doi:10.1167/14.10.125

Correcting video-based eye tracking signals for pupil size artifacts. Meetings of the Vision Sciences Society, St. Petersburg, FL, May 2014 (co-authored with K.W. Choe & Sang-hun Lee). J Vis August 22, 2014 14(10): 754; doi:10.1167/14.10.754

Brain responses accompanying unnoticed switches in dominance during binocular rivalry. Meetings of the Organization for Human Brain Mapping, Hamburg, Germany June 2014 (co-authored with J. Brascamp, T. Knapen). Abstr. 41890, http://www.humanbrainmapping.org/files/2014Posters.pdf

Seeing what you hear: Melody enhances perceptual dominance of musical notes engaged in binocular rivalry. Annual Meeting of the Korean Society for Cognitive and Biological Psychology, Jeju, South Korea, Jan. 2015 (co-authored with M. Lee, M., S. Kim, S., & Kim, C-Y)

Sensory eye dominance varies within the visual field. Meetings of the Vision Sciences Society, St. Petersburg, FL, May 2015 (K. Dieter & R. Blake). J. Vis September 2015, Vol.15, 268. doi:10.1167/15.12.268.

Seeing in tune. Annual meetings of the Society for Music Perception & Cognition, Nashville TN, Aug. 2015.

Unreportable switches in bistable perception produce negligible fronto-parietal BOLD activity. Meetings of the Vision Sciences Society, St. Petersburg, FL (T. Knapen, R. Blake & J. Brascamp) 2016 http://jov.arvojournals.org/article.aspx?articleid=2551299&resultClick=1

Dissimilarity between feature ensembles triggers binocular rivalry without competing local features. Meetings of the Vision Sciences Society, St. Petersburg, FL (co-authored with O. Cha & S.C. Chong) 2017

Why are dynamic Mondrian patterns unusually effective in inducing interocular suppression? Meetings of the Vision Sciences Society, St. Petersburg, FL (co-authored with S. Han, G. Kong & D. Alais) 2017

Distributional analyses of individual differences in binocular rivalry dynamics. Meetings of the Vision Sciences Society, St. Petersburg, FL (co-authored with J. Sy, A.T. Tomarken, V. Patel) 2017

Low-level properties of dynamic Mondrians, not their predictability, empower continuous flash suppression. Meetings of the Vision Sciences Society, St. Petersburg, FL (co-authored with S. Han, G. Kong & D. Alais) 2018

Mechanisms of motion-based figure-ground segmentation. Meetings of the Configural Processing Consortium, New Orleans (co-authored with D. Tadin, K. Dieter, J. Lappin) 2018.

Phase perception altered by long-term neural adaptation to habitual optics reduces binocular summation. Meetings of the Association for Vision and Ophthalmology, Baltimore, MD (co-authored with G. Yoon, C. Ng, D. Tadin & M. Banks) Abstract # 606-B0084, 2019. https://iovs.arvojournals.org/article.aspx?articleid=2741259

Stimulus-specific learning facilitates ensemble processing of cars. Meetings of the Vision Science Society, St. Petersburg, FL (O. Cha, R. Blake & I. Gauthier), 2019. https://jov.arvojournals.org/article.aspx?articleid=2749975

Novel procedure for generating continuous flash suppression: Seurat meets Mondrian. Meetings of the Vision Science Society, St. Petersburg, FL (R. Blake, O. Cha, G. Son, S.C. Chong), 2019. https://jov.arvojournals.org/article.aspx?articleid=2750146

Can human stereopsis improve by making the eyes optically perfect? Meetings of the Vision Science Society, St. Petersburg, FL (C.J. Ng, M.S. Banks, D. Tadin, R. Blake, G. Yoon) 2019. https://jov.arvojournals.org/article.aspx?articleid=2750429

Perfect optical correction reveals visual plasticity drive by retinal image quality. Meetings of the Society for Neuroscience, Chicago (C.J. Ng, D. Tadin, R. Blake, M.S. Banks, G. Yoon) 2019.

The effect of improving the eye's optical quality on spatio-temporal contrast sensitivity. Meetings of the Association for Research in Vision & Ophthalmology. *Investigative Ophthalmology & Visual Science*, *61*(7), 5168-5168. (Ng, C. J., Barbot, A., Tadin, D., Banks, M. S., Blake, R., & Yoon). (2020). https://iovs.arvojournals.org/article.aspx?articleid=2768892

Judgments of average and variance within object ensembles rely on a common ability. Online Meetings of the Vision Science Society, (O. Cha, R. Blake, I. Gauthier) 2020. (Journal of Vision October 2020, Vol.20, 841. https://jov.arvojournals.org/article.aspx?articleid=2771805)

Extracting evidence for neural rhythms from behavioral measurements. Online Meetings of the Vision Science Society, (O. Cha & R. Blake).Journal of Vision, September 2021, vol. 21 (9). https://jov.arvojournals.org/article.aspx?articleid=2776996

Monocular and binocular interactions in human vision. Online meetings of the Wavefront Conference, June 16, 2021. (Ng, Tadin, Blake, Banks, Yoon). https://wavefrontcongress.org/past-presentations/

Binocular rivalry under naturalistic viewing conditions. Meetings of the Vision Science Society, St. Petersburg, FL. May 2022 (S. Han, R. Blake, C. Aubuchon, D. Tadin) https://jov.arvojournals.org/article.aspx?articleid=2784938

Human stereovision is affected by adaptation in the monocular channels Meetings of the Vision Science Society, St. Petersburg, FL. May 2022 (C. Ng, M. Banks, R. Blake, D. Tadin, G. Yoon). https://jov.arvojournals.org/article.aspx?articleid=2784705

tCFS: A new 'CFS tracking' paradigm reveals uniform suppression depth regardless of target complexity or salience. Meetings of the Vision Science Society, St. Petersburg, FL. May 2023 (J. Coorey, D. Alais, R. Blake, M. Davidson) https://jov.arvojournals.org/article.aspx?articleid=2792465&resultClick=1

INVITED ADDRESSES, INTERVIEWS AND COLLOQUIA

Spatial vision in humans and cats. U. North Carolina, Chapel Hill, 1978; Laboratorio di Neurofisiologia, Pisa, Italy, 1979; Erasmus University Medical School, Rotterdam, The Netherlands, 1979; University of Virginia, Charlottesville, 1977; University of Houston School of Optometry, 1977; Bell Laboratories, Murray Hill, 1975; Conference on Visual Perception, Badenweiler, FRG, 1987; Vanderbilt University, 1984; Chicago Chapter, Neuroscience Society, 1986; Hokkaido University, 1992; Otago University, Dunedin NZ, 1995

Binocular vision in animals and man. University of Arkansas, 1979; Eye Institute, NIH, Bethesda, 1980; Illinois College of Optometry, Chicago, 1979; Visual Sciences Center, University of Rochester, 1978; Dalhousie University, Halifax, Canada, 1974; Symposium on Visual Development, University of Minnesota, 1976.

Social psychology of binocular vision. University of Alabama, Birmingham, 1984; Dartmouth College, 1984; York University, Toronto, 1983; Brown University, 1982; Massachusetts Institute of Technology, Cambridge, 1980; University of British Columbia, Vancouver, Canada, 1980; University of Victoria, Canada, 1980; University of Houston, 1979; Vanderbilt University,, 1979; Loyola University, Chicago, 1977; University of Arkansas, 1983; University of North Carolina, Chapel Hill, 1979.

Is binocular vision always monocular? University of Chicago, 1978; City College of Optometry, New York, 1978; DePaul University, 1979; University of Michigan, Ann Arbor, 1978; Michigan State University, 1978; Miami University, Oxford, 1976.

Correlating visual psychophysics and visual neurophysiology. Visual Sciences Center, University of

Rochester, 1977; University of Texas, Austin, 1978; NIMH Conference on Measurement of Vision and Hearing during the First Year of Life, 1982.

Psychoanatomy of Human Vision. Psychophysical strategies for localizing sites of action in human visual system. Cognitive Neuroscience Meetings, Barcelona, Spain, 1979. Illinois College of Optometry, 1984; University of Alabama, Birmingham, 1984; Michigan State University, 1984; University of Arkansas, 1985; University of Missouri School of Optometry, St. Louis, 1986; M.I.T., Cambridge Mass., 1985; University of Illinois, Circle Campus, 1986.; Vanderbilt University, 1987; University of Colorado, 1989; Brandeis University, 1989; University of Chicago, 1990; Eastern Psychological Association, 1990; University of Iowa, 1990; International Society for Psychophysics, Duke University, 1991; University of Toronto, 1992; University of North Carolina, Greensborough, 1992; Kyoto University, 1992; Tokyo University, 1992; Hokkaido University, 1992; Nippon Telephone/Telegraph, Tokyo, 1992; Johns Hopkins University, 1993; Otago University, Dunedin NZ, 1995; Duke University, 1995; North Dakota State University, 1996; University of North Carolina, Chapel Hill, 1997; American Academy of Neurology, Boston, 1997; Southern College of Optometry, 1998; University of Rochester, 1998; Sewanee University, 1998; Harvard University 1999; Cognitive Sciences Institute, U. Louisiana, Lafayette, 2000; Yonsei University, Seoul Korea, 2000; Seoul National University, 2000; University of Western Ontario, 2000; York University, 2001; Northwestern University, 2002; UCLA, 2002; University of Rochester, 2004

Structure from motion and stereopsis. Massachusetts Institute of Technology, Cambridge, 1990; Optical Society of America, San Jose, 1991; York University, 1992

Visual Grouping By Spatial and Temporal Structure. Brandeis University, 1997; University of North Carolina, Chapel Hill, 1997; Stanford University, 1999, Massachusetts Institute of Technology, Cambridge, 1999; IEEE Workshop on Biologically Motivated Vision, Seoul Korea, 2000; Max Planck Institute, Frankfurt, 2000; University of Bochum, 2000; University of Tuebingen, 2000; New York University, 2000; Brown University, 2000; Montana State University, 2001; Dartmouth University, 2001; Conference on Cortical Dynamics, Big Sky MT, 2001; Duke University, 2001; National Institutes of Health, 2002

Role of knowledge in visual perception. ATR Workshop on Vision, Nara Japan, 1997; Southern College of Optometry, 1998; Belmont University, 2005; University School Nashville, 2014

Visual Awareness. International Conference on Neural Information Processing, 1997, Otago University, Dunedin NZ; University of Texas, Austin, 1999; Boston University, 1999; California Institute of Technology, 1999; University of Western Ontario, 2000; Toward a Science of Consciousness, Tucson, 2002; Florida Atlantic University, 2014.

Using science fiction to teach science fact. Cumberland Science Museum, Nashville TN, 1998; Southern Book Society, 1998; Texas Association for the Gifted and Talented, El Paso, 1999

Living in the 21st Century with a Stone-age Brain. Arts & Science Day, Vanderbilt University, 2000; John F. Kennedy Center for Human Development, Crossroads Program, 2000; Belle Meade Country Club, Nashville TN, 2009

When Color Pops Out in the Brain. Harvard University, 2002; Nashville Rotary Club, 2002 University of Texas, Austin, 2002; University of Chicago, 2003; McMaster University, 2003; University of Texas, Arlington, 2004; New York University, 2004; Annual Interdisciplinary Conference, 2004; New York University, 2004; Yale University, 2004; Princeton University, 2004; Rutgers University, 2004; Indiana University, 2004; Kanazawa University, 2004; Kyoto University, 2004; Otago University, 2006; University of California, Irvine, 2006, Utrecht University, 2006; Duke University, 2006, Belmont University, 2007; Miami (OH) University, 2007; Northeastern University, 2007; West Virginia University, 2007; Berry College (GA), 2011

Cortical dynamics underlying visual perception, 5th International workshop on Attention and Cognition, Tokyo, 2004 (http://home.hiroshima-u.ac.jp/jkawa/AandC/#2004)

Strategies for studying the neural correlates of consciousness. California Institute of Technology, 2005; Harvard University, 2005; Otago University, 2006

Resolving Visual Conflict: Center for Visual Sciences, Rochester University, 2008; Macquire University, Sydney AU, 2009; University of Sydney, Sydney AU, 2009; University of Queensland, Brisbane AU, 2009; Asia-Pacific Conference on Vision, Incheon ROK, 2012; VisioNewYork, 2013; York University, 2013; University of California, Berkeley, 2013; Macquarie University, 2013; Brandeis University, 2013, Florida Atlantic University, 2014; Dartmouth College, 2014; Université Paris Descartes, 2016

Actions Speak Louder than Words: Visual Perception of Biological Motion. World Class University

Symposium, 2010, Seoul ROK; Yonsei University, Seoul ROK, 2010; Korea University, Seoul ROK, 2010; Ajou University, Suwon ROK, 2011; Florida Atlantic University, 2014.

How the brain constructs reality. Osher Institute, Vanderbilt University, 2014; Seoul National University, 2014

Current Biology Q and A with Randolph Blake, Current Biology, 2010, 20 (22), R959-R961. https://www.sciencedirect.com/science/article/pii/S0960982210011577?via%3Dihub

QnAs with Randolph Blake, Proceedings of the National Academy of Sciences, 2013, 110, 8320. https://www.pnas.org/content/pnas/110/21/8320.full.pdf

Reflections on the Joys and Anguish of a Career in Science. Yonsei University, 2017; Institute of Psychology, China Academy of Sciences, 2017.

Visual competition and perceptual inference. Seoul National University, 2017; China Vision Sciences Society, QuFu, Shangdong Province, China, 2017; Rochester University, 2018; University of Indiana, 2018

DISSERTATION STUDENTS SUPERVISED

John Camisa, Sandra Lema-Stern, Randall Overton, Michael Sloane, William Martens, Karen Holopigian, Mary Bravo, Mark Nawrot, Heidi Wiesenfelder, Yuede Yang, Karen Yu, Eric Hiris, Vicki Ahlstrom, Sang-Hun Lee, Emily Grossman, Chai-Youn Kim, Min-Suk Kang, Eunice Yang

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